

Docket No. 2003-005-DSK

**CLAIMS:**

What is claimed is:

- 1 1. An electromagnetic gasket for shielding  
2 electromagnetic interference (EMI), comprising:  
3 a metal shielding component comprising a  
4 longitudinal metal plate and a plurality of first ribs  
5 and a number of second ribs corresponding to and opposing  
6 the plurality of first ribs;  
7 wherein the plurality of first ribs and second ribs  
8 extend beyond opposite side surfaces of the metal  
9 shielding component, are symmetric about the metal  
10 shielding component, and curve back inward under  
11 themselves; and  
12 wherein the plurality of second ribs further include  
13 an extended lip curving back outward underneath  
14 themselves.
- 1 2. The electromagnetic gasket of claim 1, wherein the  
2 plurality of first and second ribs of the electromagnetic  
3 gasket include an extended lip.
- 1 3. The electromagnetic gasket of claim 1, wherein the  
2 plurality of first and second ribs of the electromagnetic  
3 gasket are mounted on a receiving device..
- 1 4. The electromagnetic gasket of claim 3, wherein the  
2 receiving device is one of a chassis member and a module.

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1 5. The electromagnetic gasket of claim 3, wherein the  
2 receiving device is comprised of a steel, stainless  
3 steel, aluminum, or metal-coated polymer.

1 6. The electromagnetic gasket of claim 1, wherein the  
2 metal shielding component is comprised of thin beryllium  
3 copper, phosphor bronze, brass, or stainless steel.

1 7. The electromagnetic gasket of claim 1, wherein the  
2 metal shielding component includes a coating of tin, tin  
3 and lead, cadmium, or zinc.

1 8. The electromagnetic gasket of claim 1, wherein the  
2 length of the electromagnetic gasket is approximately the  
3 length of a gap created by individual sides of the  
4 receiving device and a mating chassis.

1 9. The electromagnetic gasket of claim 1, wherein the  
2 width of the electromagnetic gasket is 2 centimeters or  
3 less.

1 10. A method for facilitating electromagnetic energy  
2 shielding, the method comprising:  
3 positioning an electromagnetic interference gasket  
4 over a receiving device,  
5 wherein the receiving device includes slots for  
6 receiving the electromagnetic interference gasket;  
7 wherein the electromagnetic interference gasket  
8 includes a metal shielding component comprising a  
9 longitudinal metal plate and a plurality of first ribs

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10 and a number of second ribs corresponding to and opposing  
11 the plurality of first ribs;

12 wherein the plurality of first ribs and second ribs  
13 extend beyond opposite side surfaces of the metal  
14 shielding component, are symmetric about the metal  
15 shielding component, and curve back inward under  
16 themselves; and

17 wherein the plurality of second ribs further include  
18 an extended lip curving back outward underneath  
19 themselves; and

20 inserting the ribs of the electromagnetic  
21 interference gasket into the slots of the receiving  
22 device, wherein the extended lip facilitates the  
23 insertion of the electromagnetic interference gasket into  
24 the slots of the receiving device.

1 11. The method of claim 10, wherein the plurality of  
2 first and second ribs of the electromagnetic interference  
3 gasket include an extended lip.

1 12. The method of claim 10, wherein the receiving device  
2 is one of a chassis member and a module.

1 13. The method of claim 10, wherein the receiving device  
2 is comprised of a steel, stainless steel, aluminum, or  
3 metal-coated polymer.

1 14. The method of claim 10, wherein the metal shielding  
2 component is comprised of thin beryllium copper, phosphor  
3 bronze, brass, or stainless steel.

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1 15. The method of claim 10, wherein the metal shielding  
2 component includes a coating of tin, tin and lead,  
3 cadmium, or zinc.

1 16. A storage array for shielding electromagnetic  
2 energy, comprising:  
3 a frame;  
4 at least one drive bay mounted within the frame;  
5 at least one storage array module inserted into the  
6 at least one drive bay;  
7 at least one electromagnetic interference gasket  
8 mounted onto the at least one disk array module;  
9 wherein the at least one electromagnetic  
10 interference gasket includes a metal shielding component  
11 comprising a longitudinal metal plate and a plurality of  
12 first ribs and a number of second ribs corresponding to  
13 and opposing the plurality of first ribs;  
14 wherein the plurality of first ribs and second ribs  
15 extend beyond opposite side surfaces of the metal  
16 shielding component, are symmetric about the metal  
17 shielding component, and curve back inward under  
18 themselves; and  
19 wherein the plurality of second ribs further include  
20 an extended lip curving back outward underneath  
21 themselves, the extended lip facilitating the mounting of  
22 the at least one electromagnetic interference gasket onto  
23 the at least one storage array module.

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1 17. The storage array of claim 16, wherein the plurality  
2 of first and second ribs of the electromagnetic  
3 interference gasket include an extended lip.

1 18. The storage array of claim 16, wherein the metal  
2 shielding component is comprised of thin beryllium  
3 copper, phosphor bronze, brass, or stainless steel.

1 19. The storage array of claim 16, wherein the metal  
2 shielding component includes a coating of tin, tin and  
3 lead, cadmium, or zinc.